

00003566 031003

DeCypher Results for: ClustalW Multiple Alignment

[View dendrogram](#)

Smart II oligo -||-5'UTR

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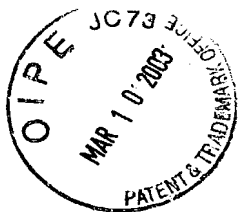
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hDAP10c TCCTGAGAAGACTGACGGGCTGGGCAGCGGAGATGAGAAGAAGATGGAGAGAGTGAGCGA
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hDAP10c GGAGGAGGACAGCCGGCAGGAGTGGACCTTACCCTGTATGACTTTGACAACAACGGCAA
mDAP10c_coding GGAGGAGGACAGCCGGCAAGAGTGGACTTTCCTCTATATGACTTCGACAACAATGGCAA

FIG. 1-1



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hDAP10c GGTCAACCCGAGAGGACATCACCAGCTTGCTGCACACCATCTATGAGGTGGTGGACTCCTC
mDAP10c_coding AGTGACCCGTGAGGACATTACCAGCTTGCTGCATACCATCTATGAAGTGGTTGACTCCTC
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* * * * *

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* * * * *

hDAP10c GCTCAGGTTCCAGGGTGACAGCCGCTGGAGCAGTCTGGCTGCTACCACCATTCGCTAGA
mDAP10c_coding ACTCAGGTTCCAGGGTGACAGCCACCTGGAGCAGCCAGACTGCTACCACCATTCGCTGGA
* * * * *

hDAP10c TGAGAACATCGAGAGGAGAAACCACTACTTAGATCTCGCCGGGATAGAAAACCTACACGTC
mDAP10c_coding TGAGAACATTGAGAGGAGAAACCACTACCTAGACCTGGCGGGGATAGAGAACCTACACGTC
* * * * *

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* * * * *

hDAP10c CAATCCCCTCGATCTCGCTCCCATGAGCCGGAAGCCATCCACATCCCACACCGAAAGCC
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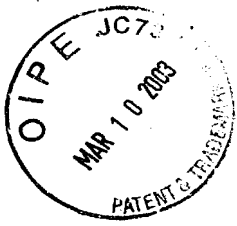
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FIG. 1-2



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```
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* * ***** ** ***** ** ***** ** ***** ** ***** ** ***** **
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***** ** ***** ** ***** ** ***** ** ***** ** ***** **
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***** ** ***** ** ***** ** ***** ** ***** ** ***** **
                -||-3' UTR
hDAPI10c      GACATAGAGCCCCCTCCCCAGGGCCCCACCCCTGCCATATGAAGACCCACCCCGACACC
mDAPI10c_coding GCCCTAG-----
* * **

hDAPI10c      ACAAGGCATTATTCTTATTAATTATTGTTATTATGATGATTATTGTTATTAATAATTA
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hDAPI10c      TTGTTACTCCACTAATATTAGCTAGCCTACATGTAGAAGATCTATGGAACACAGAACT
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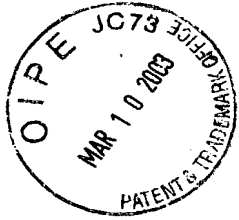
FIG. 1-3



View dendrogram

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hDAP10cFL.pep	RSTRELVGDLVRDTLSEEEEDDFRLEVALPPEKTDGLSGSGDEKKMERVSEPCPGSKKQLK
mDAP10c.pep	RGTRELVGDTSRREALGEEDEDDFPLEVALPPEKIDSLSGSGDEKRMERLSEPGQASKKQLK *.*****. *:.*.**:***** ***** *.*****:***:*** .*****
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mDAP10c.pep	FEELQCDVSVEEDSRQEWFTFTLYDFDNNGKVTREDITSLLHTIYEVVDSSVNHSPSSKT *****:*****
hDAP10cFL.pep	LRVKLTVAPDGSQSKRSVLVNQADLQSARPRAETKPTEDLRSWEKKQRAPLRFQGDSRLE
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mDAP10c.pep	QPCDYHHCVDENIERRNHYLDLAGIENYTSQFGPGSPSAQKSELPPRISNPTRSRSHPE *..*****
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FIG. 2



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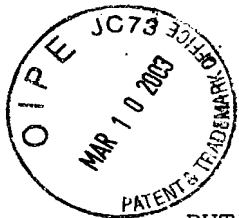
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FIG. 3

SEQ. ID. NO.: 6

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FIG. 4

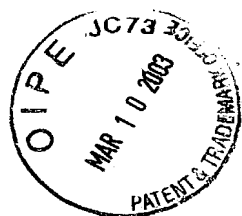


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FIG. 7-1



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CGGCCCCCGGGCCCCAGACCGCGGCAGGGAGCGCGGACTGTGTCCCGCCCCCTCCCGTCAGCGCCCCGCCCTC
GTCCCCGCCCATGCCCCGCCCTCCGGCCCCGCCCGCCGCAACCAGCCTTGCTTTGATGCGCCGCAACCGG
CCAATGGGCGCGCGGGGAGGCGCGGGGCCGCGCGGGGCTGGGGGCTCGGCGCTCCCGGGCGTC

EXON1: 5' UTR

AGTCGGGCGCGGCGACGGCGGCAGGAGCGCGTCCCGGCGCCGCTCGGGCTCCGCTCGGCTCGGGGGCTG
CTTCGGGAGGAGAAGAGCCAAGGGAGGCGCCAGGCCCCGCGGGCCGGCG

EXON2: 5' UTR

CATGGCTTAGGGACGCTCCCGGCCGCGCATCCCCAGC

EXON2: CODING

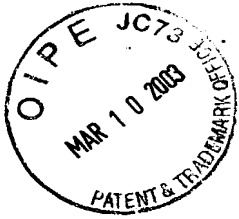
ATGGGGAACTTCACTCCAAGCCG

EXON3: CODING

GCCGCCGTGTGCAAGCGCAGGGAGAGCCCCGGAAG

EXON4: CODING

FIG. 7-2



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GTGACAGCTTCGCCGTGAGCGCTGCCTGGGCTCGGAAGGGCATCGAGGAGTGGATCGGGAGACAGCGCTGC
CCGGGCGGTGTCTCGGGACCCCGACAGCTGCGGTTGGCGGGCACCATAGGCCGAAGCACCCGG

EXON5: CODING

GAGCTCGTGGGCGACGTGTTGAGAGACACGCTCAGCGAGGAAGAGGAGGACGACTTTCGGCTGGAAG

EXON6: CODING

TGGCCCTGCCTCCTGAGAAGACTGACGGGCTGGGCAGCGGAGATGAGAAGAAGATGGAGAGAGTGAAGCGAA
CCCTGCCCAGGCTCCAAGAAGCAGCTGAAGTTTGAA

EXON7: CODING

GAGCTCCAGTGCGACGTGTCCATGGAGGAGGACAGCCGGCAGGAGTGGACCTTCACCCTGTATGACTTTGA
CAACAACGGCAAGGTCACCCGAGAG

EXON8: CODING

GACATCACCAGCTTGCTGCACACCATCTATGAGGTGGTGGACTCCTCTGTCAACCACTCCCCAACATCCAG
CAAGATGCTGCGGGTAAAGCTCACCGTGGCCCCCGATGGCAGCCAGAGCAAGAGGAGCGTCCTTGTCATC
AGGCTG

EXON9: CODING

ACCTGCAGAGCGCAAGGCCCGAGCAGAGACCAAGCCCACTGAGGACCTGCGGAGCTGGGAGAAGAAGCAG
CGAGCCCCGCTCAG

EXON10: CODING

GTTCCAGGGTGACAGCCGCCTGGAGCAGTCTGGCTGCTACCACCATTGCGTAGATGAGAACATCGAGAGGA
GAAACCACTACTTAGATCTCGCCGGGATAGAAACTACACGTCCCAATTTGGGCCTG

EXON11: CODING

GCTCCCCTTCCGTGGCCCCAGAAGTCAGAAGTGCACCTCCAATCCCACTCGATCTCGCTCCCAT
GAGCCGGAAGCCATCCACATCCACACCCGAAAGCCCCAAGGCGTGGACCCGGCCTCCTTCCACTTCCTTGA
CACCCCAATCGCCAAGGTCTCAGAGCTCCAGCAACGGCTCCGGGGCACCCAGGACGGGAGCAAGCACTTTG
TGAGGTCCCCCAAGGCCAGGGCAAGAGTGTGGGTGTGGGCCACGTGGCCAGAGGGGCAAGAAACAAGCCC
CCTCTGGGACCCGCCATCCCTGCGGTGTCCCCCTCCGCCCACCTGGCTGCCAGCCCGGCCCTCCTCCCCTC
CCTAGCCCCCTCGGGCACAAGAAGCACAAGCACCGAGCCAAGGAGAGCCAGCAGGGCTGCCGGGGCCTGC
AGGCACCACTGGCCTCAGGTGGCCCTGTCTTGGGGCGGGAGCACCTGCGGGAGCTGCCCGCCTTGGTGGTG
TATGAGAGCCAGGCCGGGCAGCCGGTCCAGAGACATGAGCACCACCACCACCATGAACATCACCACCATTA
CCACCACTTCTACCAGACATAG

EXON11: 3'UTR

AGCCCCCTCCCCAGGGCCCCACCCTGCCATATGAAGGACCCACCCCCGACACCACAAGGCATTATTATTCT
ATTAATTATTGTTATTATGATGATTATTGTTATTAATAATTATTGTTACTCCACTAATATTTAGCTAGCCT
ACATGTAGAAGATCTATGGAAACACAGAATAAATTTTATTTATATGTTAAAAA
AA

FIG. 7-3

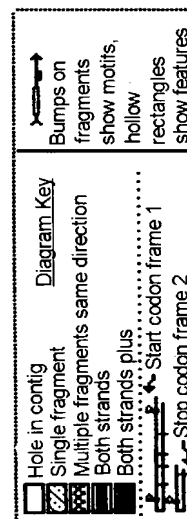
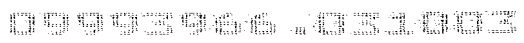
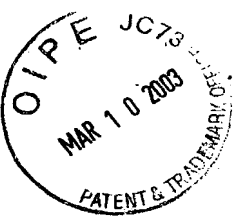


FIG. 8



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Wnt/ β -cantenin Pathway Induces Genes
Which Promote Cell Proliferation

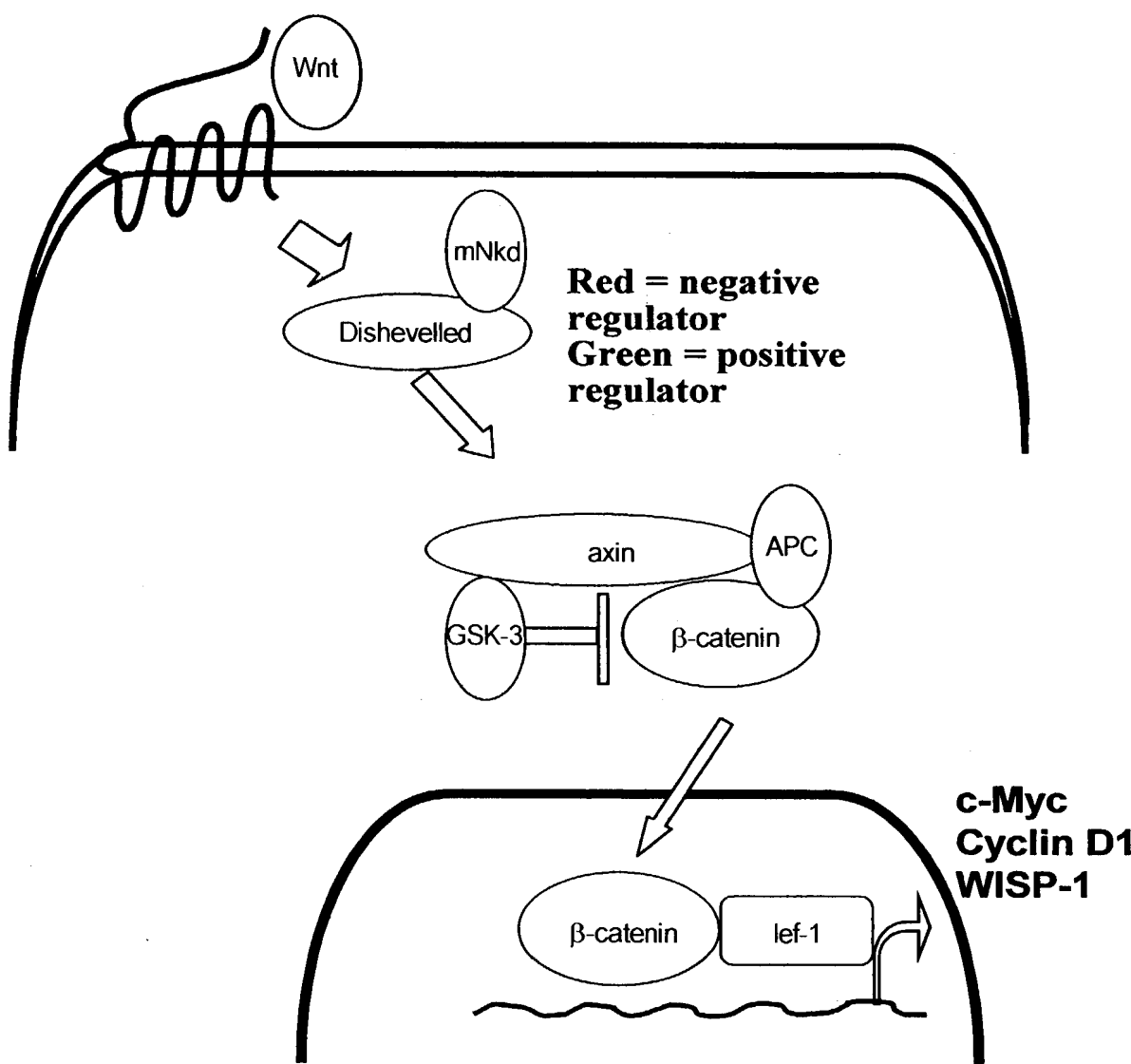
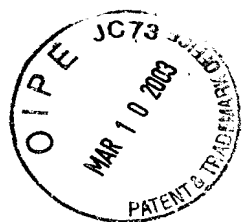


FIG. 9

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03/10/03

The figure displays a Western blot analysis and a schematic diagram of the Wnt signaling pathway. The Western blot shows protein levels for mNkd and GAPDH across six lanes: Wnt3a-8hrs, Con-8hrs, Wnt3a-19.5hrs, Con-19.5hrs, Wnt3a-27hrs, and Con-27hrs. mNkd levels are high in the Wnt3a-treated lanes and low in the control lanes. GAPDH levels are consistent across all lanes, serving as a loading control. The schematic diagram illustrates the Wnt signaling pathway, showing Wnt binding to a receptor, which activates mDvl, leading to the degradation of β -catenin and subsequent upregulation of mNkd.

FIG. 10



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Ratios of hNkd and β -Catenin mRNA
Levels in SW620 Cells Treated with
 β -Catenin AS/RC Oligos

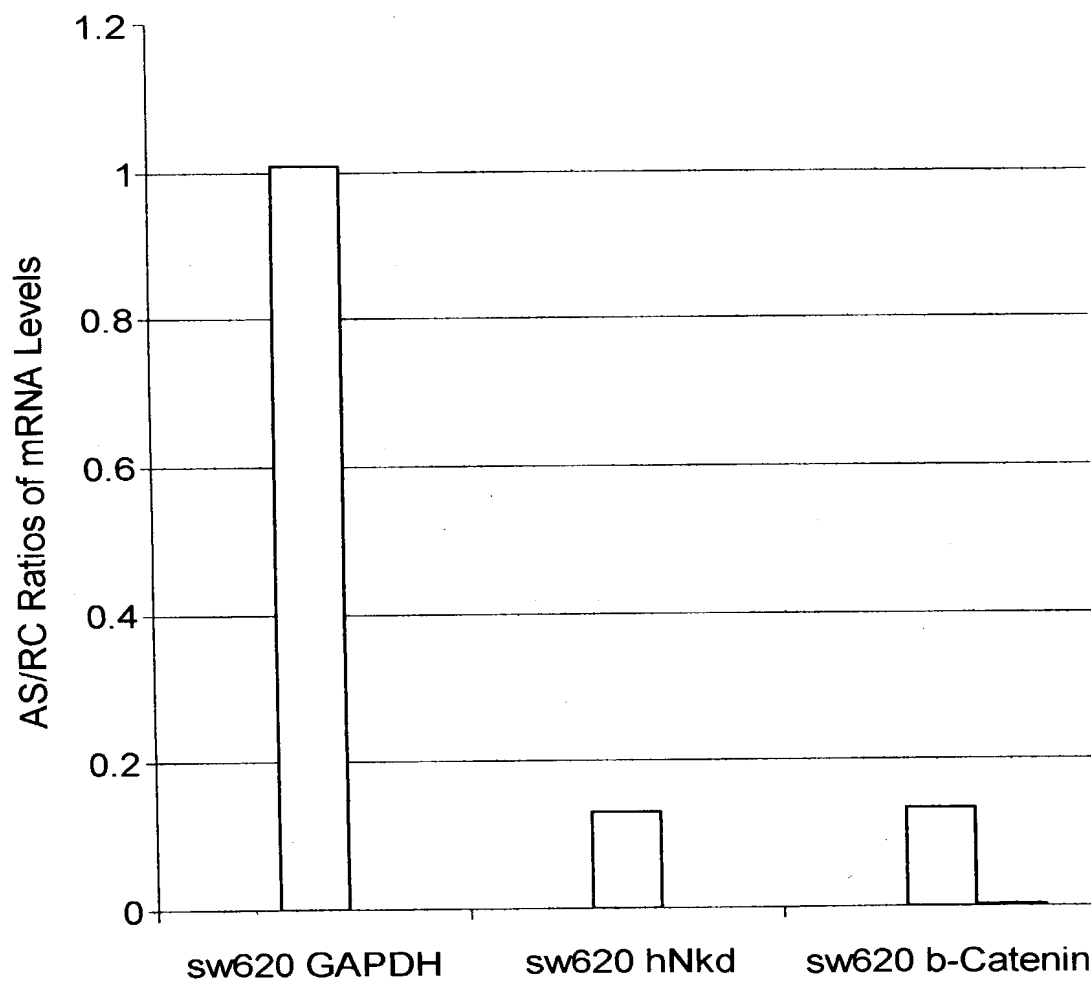
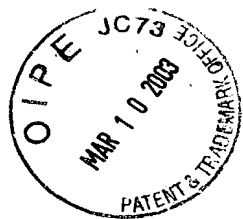


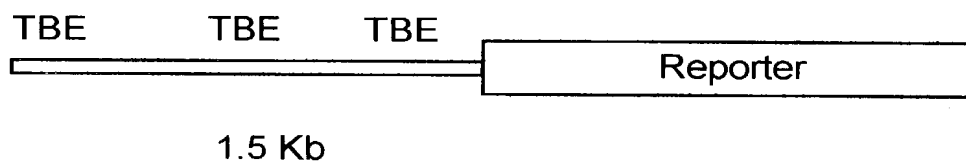
FIG. 11



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Using hNkd Promoter---Reporter Expression
Construct to Screen for Small Molecule
Inhibitors that Down Regulate the Expression
of the Reporter

Our Strategy:

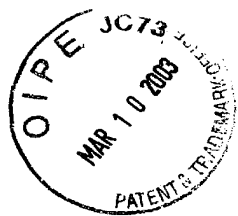


TBE: TCF binding Element (CTTTGA/TA/T)

FIG. 12



FIG. 13



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hNkd inhibits Wnt-1 activated luciferase reporter

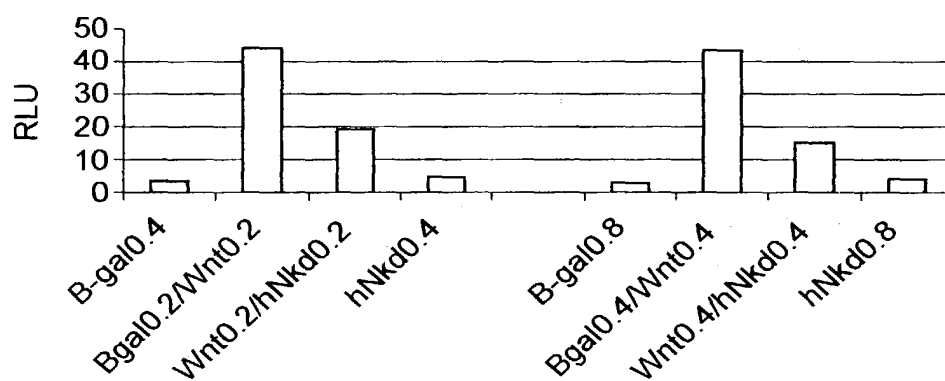
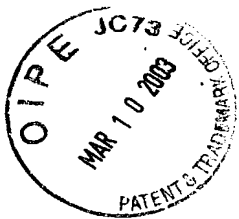


FIG. 14



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Expression of hNkd in Normal Tissues

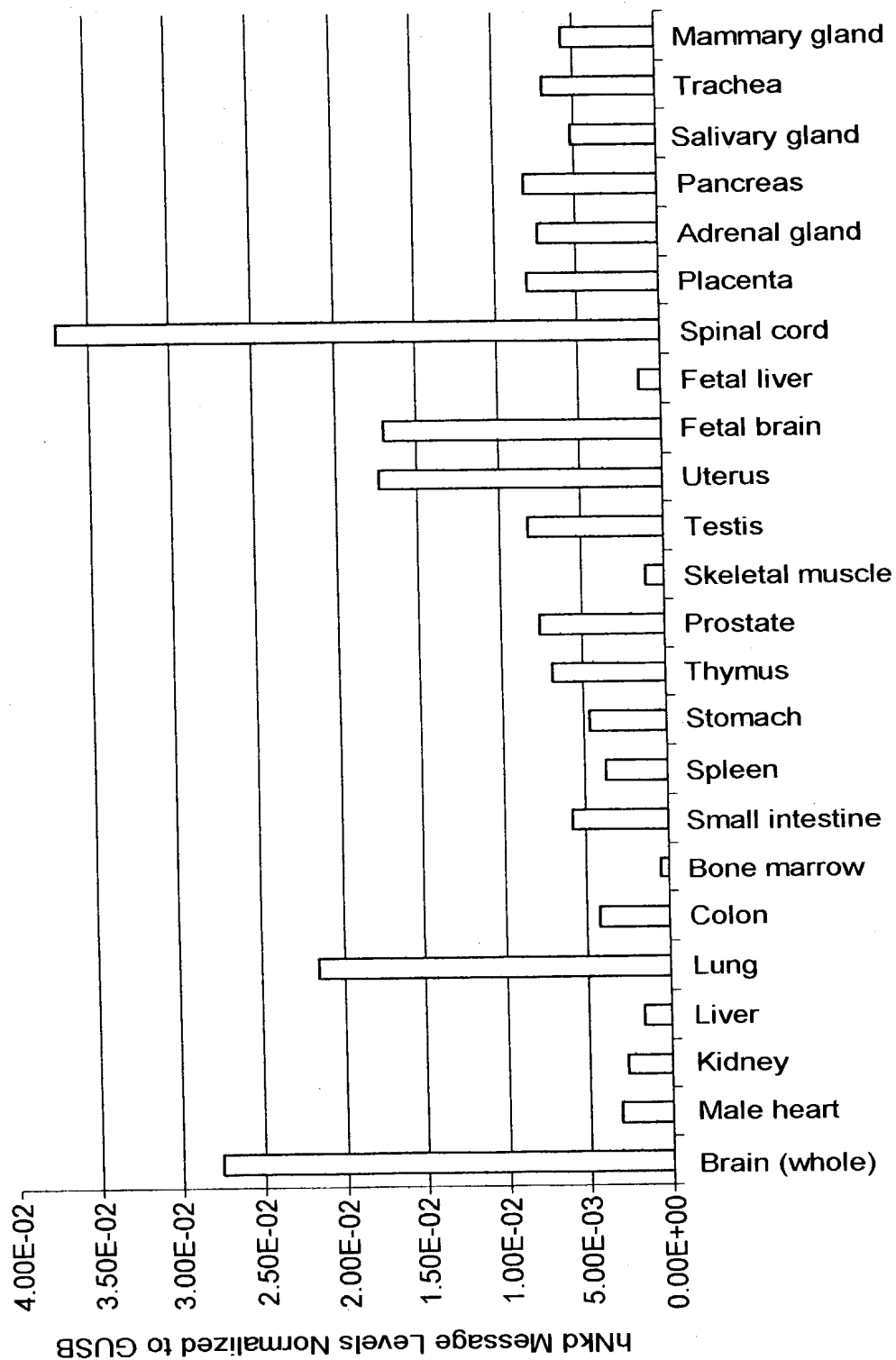
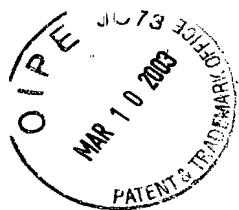


FIG. 15



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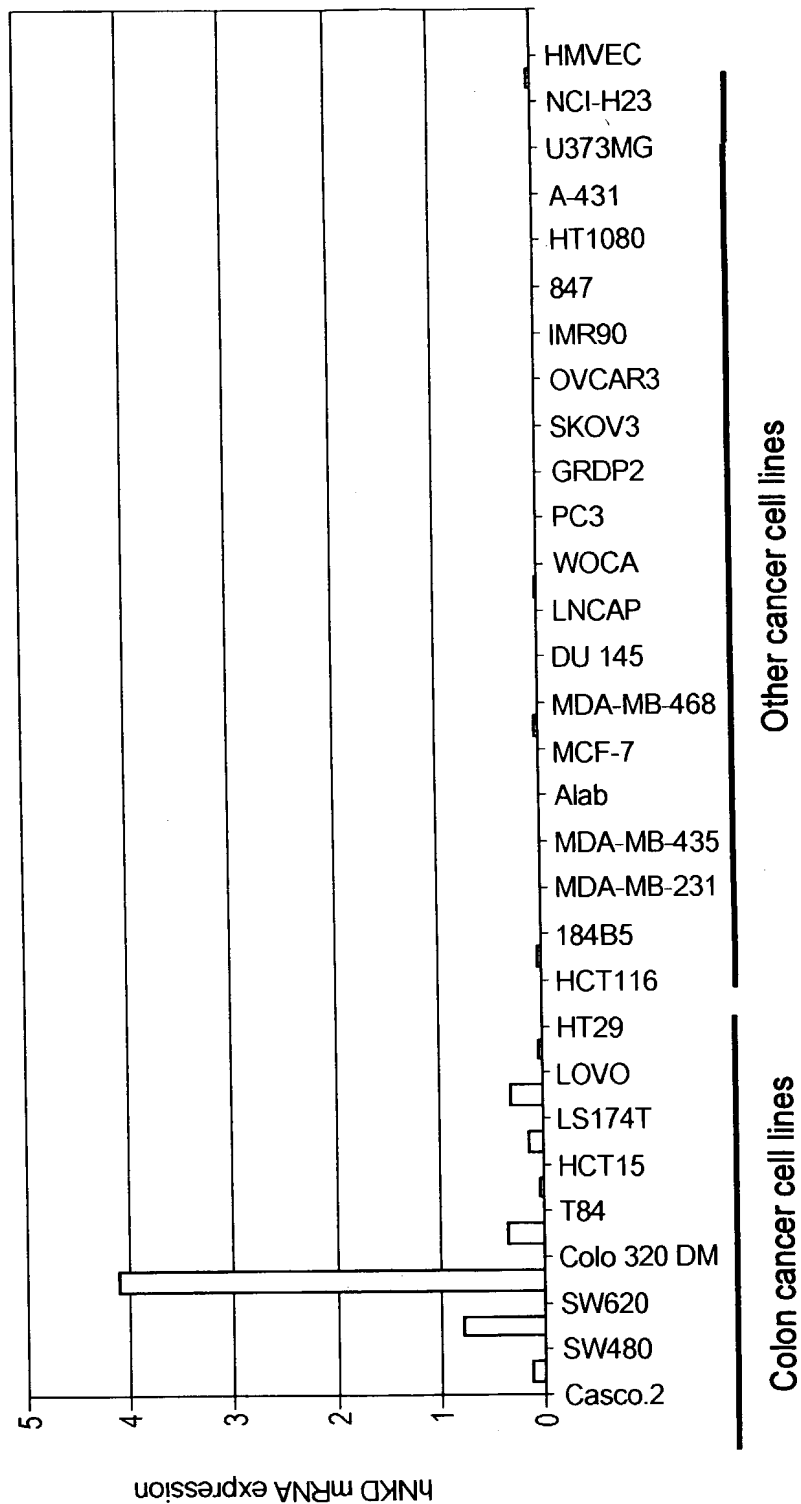


FIG. 16